

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	1	3
2. AMENDMENT/MODIFICATION NO. <div style="text-align: center;">2</div>		3. EFFECTIVE DATE <div style="text-align: center;">21-Feb-02</div>		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. <i>(If applicable)</i>
6. ISSUED BY <div style="text-align: center;">CODE</div>		7. ADMINISTERED BY <i>(If other than item 6)</i> <div style="text-align: center;">CODE</div>				
US Army Engineering District, Kansas 757 Federal Building, 601 East 12th Street Kansas City, Missouri 64106-2896						
8. NAME AND ADDRESS OF CONTRACTOR <i>(No., street, county, State and ZIP Code)</i>				(x) 9a. AMENDMENT OF SOLICITATION NO. DACA41-02-R-0002 X 9b. DATED <i>(SEE ITEM 11)</i> 08-Feb-02 10a. MODIFICATION OF CONTRACT/ORDER NO. 10b. DATED <i>(SEE ITEM 13)</i>		
CODE				FACILITY CODE		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input checked="" type="checkbox"/> The above number solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended. <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended.						
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and return 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or teletype which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.						
12. ACCOUNTING AND APPROPRIATION DATA <i>(If required)</i>						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
(x) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: <i>(Specify authority)</i> THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBER CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES <i>(such as changes in paying office, appropriation date, etc.)</i> SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF: C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: D. OTHER <i>(Specify type of modification and authority)</i>						
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.						
14. DESCRIPTION OF AMENDMENT/MODIFICATION <i>(Organized by UCF section headings, including solicitation/contract subject matter where feasible.)</i> PROJECT: Modified Record Fire Range, Combat Pistol Range and 25-Meter Zero Firing Range, PN 006424 LOCATION: Fort Riley, Kansas						
1. This Solicitation is amended in accordance with the attached pages. 2. Offers will be received until 2:00 pm, 6 Mar. 2002, in Room 757, Federal Building, 601 East 12th Street, Kansas City, Mo., 64106-2896						
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changes, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER <i>(Type or print)</i>				16A. NAME AND TITLE OF CONTRACTING OFFICER <i>(Type or print)</i>		
15B. CONTRACTOR/OFFEROR <div style="text-align: center;"><i>(Signature of person authorized to sign)</i></div>		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY <div style="text-align: center;"><i>(Signature of Contracting Officer)</i></div>		16C. DATE SIGNED
NSN 7540-01-152-8070				30-105		STANDARD FORM 30 (REV. 10-83)
PREVIOUS EDITION UNUSABLE				Prescribed by GSA FAR (48 CFR) 53.243		

1. SOLICITATION NO. DACA41-02-R-0002 is amended as follows:

a. AMENDMENT 0001:

Narrative Changes:

- (1) Page SF 30-1: In Item No. 3, the Effective Date is changed from "13 Feb 01" to "13 Feb 02".
- (2) The Solicitation Number is changed from "DACA41-02-R-0002" to "DACA41-02-R-0002-0001" on the following pages:

PART A – RFP GENERAL
PROPOSAL REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE
CONTRACT

Page 3 of 75
Page 4 of 75
Page 5 of 75

Page 14 of 75
Page 15 of 75
Page 24 of 75

Page 25 of 75
Page 51 of 75

b. SPECIFICATIONS:

- (1) Revised Pages: The following pages are deleted and replaced with revised pages of the same number. A copy of each revised page accompanies this amendment.

(a) PART A – RFP GENERAL
PROPOSAL REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE
CONTRACT

Page 4 of 75

(b) PART B – GENERAL DESIGN REQUIREMENTS

Page 7-4

(c) PART C – 25 METER ZERO FIRING RANGE

Page 3-1

(d) PART D – COMBAT PISTOL RANGE

Page 3-1

- (2) Revised Sections: The following sections are deleted and replaced with revised sections. A copy of each revised section accompanies this amendment.

- (a) PART A – DESIGN / BUILD REQUIREMENTS
Section 01900 – Base Schedule and Options
- (b) PART E – MODIFIED RECORD FIRING RANGE
Chapter 3 – Site Planning and Design

c. DRAWINGS:

Revised Drawings: The following drawings are deleted and replaced by revised drawings of the same number, dated 21 February 2002. A copy of the revised drawings accompanies this amendment.

<u>Sheet No.</u>	<u>Title</u>
C3.1	Overall Site Plan
C6.2	Site Details – Range Foxholes
A1.1	Control Tower – Plans and Elevations
A1.2	Large Ammo Breakdown Building
A1.3	Ammo Breakdown Building
A1.4	Instruction Building (Metal Building Construction)
A1.5	Dual-Sex Latrine Modified Record Fire Range (Metal Building Construction)
A1.6	Dual-Sex Latrine Combat Pistol Range (Metal Building Construction)
A1.7	Covered Training Area

2. For convenience, on the revised specification pages, essential changes from the previous issue have been emphasized as follows, however, all portions of the revised specification pages shall apply whether or not changes have been indicated:

- a. Changes within a paragraph are underlined.
- b. New words or sentences, within a paragraph, are underlined.
- c. When an entire paragraph was deleted, the word "Deleted" is underlined and inserted after the paragraph number.

3. Offerors are required to acknowledge receipt of this amendment on the Proposal Form, in the space provided, or by separate letter or telegram prior to receipt of offers. Failure to acknowledge all amendments may cause rejection of the offer.

4. Offers will be received until 2:00 p.m. local time at place of receipt of offers, 6 March 2002 in Room 757, Federal Building, 601 E. 12th Street, Kansas City, Missouri 64106-2896.

2 Encls

1. Spec. Pages as listed.
2. Drawings as listed

PRICE SCHEDULE (Cont'd)

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	25-METER ZERO FIRE RANGE:				
0005AA	OBSERVATION TOWER	1.0	Lump Sum		\$ _____
0005AB	AMMO BREAKDOWN BUILDING	1.0	Lump Sum		\$ _____
0005AC	TARGET EMPLACEMENTS	1.0	Lump Sum		\$ _____
0006	FINAL AS-BUILT DRAWINGS AND O&M MANUALS	1.0	Lump Sum		\$ 17,000.00
0007	OPTION - GALVANIZED FINISH	1.0	Lump Sum		\$ _____
0008	OPTION - PAVED PARKING AREA	1.0	Lump Sum		\$ _____
0009	OPTION - <u>PAVED</u> ACCESS ROADS	1.0	Lump Sum		\$ _____
0010	OPTION - COVERED TRAINING AREA AT 25-METER ZERO FIRE RANGE	1.0	Lump Sum		\$ _____
				TOTAL	\$ _____

SECTION 01900

BASE SCHEDULE AND OPTIONS
12/01

PART 1 GENERAL

1.1 Scope of Work

The general outline of the principal features of each item as listed does not in any way limit the responsibility of the bidder for making a thorough investigation of the drawings and specifications to determine the scope of work included in each item of the base schedule and in each option item.

1.2 BASE SCHEDULE ITEMS

The Base Schedule Items includes all work to be performed except the option items. The descriptions of the base schedule items in the TECHNICAL PROVISIONS are supplemented as follows:

1.2.1 Item No. 0001, "Design Work"

Item No. 0001, "Design Work," includes all work required to Design and perform the Topographic Surveys for the Site Work and for the construction of the Modified Record Fire Range, the Combat Pistol Range, and the 25-Meter Firing Range, except that work covered by Item No. 0006.

1.2.2 Item No. 0002, "Site Work"

Item No. 0002, "Site Work," includes all work required beyond the lines five (5) feet outside the building lines, except that work covered by Item Nos. 0001, 0003AF, 0004AF, and 0005AC.

1.2.3 Item No. 0003, "Modified Record Fire Range"

1.2.3.1 Item No. 0003AA, "Observation Tower"

Item No. 0003AA, "Observation Tower," includes all work required, within the lines five (5) feet outside the building lines, to construct the Observation Tower.

1.2.3.2 Item No. 0003AB, "Ammo Breakdown Building"

Item No. 0003AB, "Ammo Breakdown Building," includes all work required, within the lines five (5) feet outside the building lines, to construct the Ammo Breakdown Building.

1.2.3.3 Item No. 0003AC, "Classroom Range Building"

Item No. 0003AC, "Classroom Range Building," includes all work required, within the lines five (5) feet outside the building lines, to construct the Classroom Range Building.

1.2.3.4 Item No. 0003AD, "Covered Training Area"

Item No. 0003AD, "Covered Training Area," includes all work required, within the lines five (5) feet outside the building lines, to construct the Covered Training Area.

1.2.3.5 Item No. 0003AE, "Field Latrine"

Item No. 0003AE, "Field Latrine", includes all work required, within the lines five (5) feet outside the building lines, to construct the Field Latrine.

1.2.3.6 Item No. 0003AF, "Target Emplacements"

Item No. 0003AF, "Target Emplacements", includes all work required to design and construct Target Emplacements, Range Limit Markers, Range Lane Markers, Gravel Target Lanes, Target Cabling, Foxholes, and Lighting.

1.2.4 Item No. 0004, "Combat Pistol Range"

1.2.4.1 Item No 0004AA, "Observation Tower"

Item No 0004AA, "Observation Tower," includes all work required, within the lines five (5) feet outside the building lines, to construct the Observation Tower.

1.2.4.2 Item No. 0004AB, "Ammo Breakdown Building"

Item No. 0004AB, "Ammo Breakdown Building," includes all work required, within the lines five (5) feet outside the building lines, to construct the Ammo Breakdown Building.

1.2.4.3 Item No. 0004AC, "Classroom Range Building"

Item No. 0004AC, "Classroom Range Building," includes all work required, within the lines five (5) feet outside the building lines, to construct the Classroom Range Building.

1.2.4.4 Item No. 0004AD, "Covered Training Area"

Item No. 0004AD, "Covered Training Area," includes all work required, within the lines five (5) feet outside the building lines, to construct the Covered Training Area.

1.2.4.5 Item No. 0004AE, "Field Latrine"

Item No. 0004AE, "Field Latrine", includes all work required, within the lines five (5) feet outside the building lines, to construct the Field Latrine.

1.2.4.6 Item No. 0004AF, "Target Emplacements"

Item No. 0004AF, "Target Emplacements", includes all work required to design and construct Target Emplacements, Range Limit Markers, Range Lane Markers, Gravel Target Lanes, Target Cabling, Foxholes and Lighting.

1.2.5 Item No. 0005, "25-Meter Zero Fire Range"

1.2.5.1 Item No 0005AA, "Observation Tower"

Item No 0005AA, "Observation Tower," includes all work required, within the lines five (5) feet outside the building lines, to construct the Observation Tower.

1.2.5.2 Item No. 0005AB, "Ammo Breakdown Building"

Item No. 0005AB, "Ammo Breakdown Building," includes all work required, within the lines five (5) feet outside the building lines, to construct the Ammo Breakdown Building.

1.2.5.3 Item No. 0005AC, "Target Emplacements"

Item No. 0005AC, "Target Emplacements", includes all work required to design and construct Target Emplacements, Range Limit Markers, Range Lane Markers, Gravel Target Lanes, Foxholes, and Lighting.

1.2.6 Item No. 0006, "Final As-Built Drawings and O & M Manuals"

Item No. 0006, "Final As-Built Drawings and O & M Manuals," includes all work required to provide all Final As-Built Drawings and all Operation and Maintenance Manuals.

1.3 OPTION BID ITEMS

OPTIONAL BID ITEMS include work in addition to that required for the basic construction. The descriptions of the optional bid items given on the drawing and in the TECHNICAL PROVISIONS are supplemented as follows

1.3.1 Item No. 0007, "Galvanized Finish"

1.3.1 Item No. 0007, "Galvanized Finish," includes all work required to provide galvanized steel in lieu of painted steel, for all exposed metal of the Observation Tower and for the Covered Training Area, in the Modified Record Fire Range, the Combat Pistol Range, and the 25-Meter Range.

1.3.2 Item No. 0008, "Paved Parking Area"

1.3.1.1 Item No. 0008, "Paved Parking Area", includes all work required to design and construct the Base Course and Bituminous Paved Parking Area, in lieu of Crushed Stone Parking Area for the Modified Record Fire Range, the Combat Pistol Range, and the 25-Meter Range, as shown on Sheets C3.3, C3.4 and C3.5.

1.3.3 Item No. 0009, "Paved Access Roads"

1.3.2.2 Item No. 0009, "Paved Access Roads", includes all work required to design and construct the Base Course and Bituminous Paved Access Roads, in lieu of Crushed Stone Paved Access Roads, for the Modified Record Fire Range, the Combat Pistol Range, and the 25-Meter Range, as shown on Sheet C3.1.

1.3.4 Item No. 0010, "Covered Training Area @ 25-Meter Zero Fire Range"

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PART A - RFP GENERAL (DESIGN BUILD REQUIREMENTS)

Item No. 0010, "Covered Training Area @ 25-Meter Zero Fire Range," includes all work required, within the lines five (5) feet outside the building lines, to design and construct the Covered Training Area, at the 25-Meter Zero Fire Range.

1.4 PAYMENT

1.4.1 Base Schedule Items

Base schedule items, if accepted, will be paid for at the applicable contract lump sum prices bid.

1.4.2 Option Bid Items

Optional bid items: The prices bid for the optional bid items, which are accepted within 180 calendar days after the Contract Award date, will be paid for at the applicable contract lump sum price bid

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

-- End of Section --

PART B - GENERAL DESIGN REQUIREMENTS**TECHNICAL SPECIFICATIONS:****General:**

All of the specifications and references are a part of this contract document. TI means Technical Instructions and UFGS means Unified Guide Specifications.

The following applies to the UFGS Specifications:

- Only applicable portions shall be deleted.
- Editing of the specifications shall consist solely of making selections allowed by the specifications.
- All sections of each specification such as but not limited to products, equipment, and installation shall apply.

Section Title	
TI 810-10	Mechanical Design: Heating, Ventilating, and Air-Conditioning
UFGS-15080A	Thermal Insulation for Mechanical Systems
UFGS-15556A	Warm-Air-Heating Systems-Deleted Note 1
UFGS-15895A	Air Supply, Distribution, ventilation, and Exhaust System-Refer to note 2 at end of this RFP
TM 5-809-04, Chapter 13	Seismic Design for Buildings
UFGS-15211N	Low Pressure Compressed Air Piping (Non-Breathing Air Type)-Refer to Note 1 at the end of this RFP

7-13 REFERENCES.

The mechanical design for all facilities shall be in accordance with the following:

- a. deleted
- b. ASHRAE Handbook, Fundamentals
- c. ASTM A53, Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc Coated Welded and Seamless
- d. deleted
- e. deleted
- f. deleted
- g. deleted
- h. MIL-HDBK- 1008 C, Fire Protection For Facilities

PART C - 25 METER FIRING RANGE

CHAPTER 3 - SITE PLANNING AND DESIGN

3. **Scope of work.** The following contains the civil design requirements for the 25 M Firing Zero Range. The designer will be required to prepare all specifications related to civil and sitework. Included are the minimum requirements for construction.

Range consists of 25 lanes with a lane width of 4 meters. Each firing lane has a foxhole firing position, machine target boots at a distance of 10 meters from the firing line and an E-type target at a distance of 25 meters from the firing line.

3.1. Site Development plan. Contract Drawing sheets C3.1 and C3.3 show the general layouts for the ranges.

3.2. Particular foxhole requirements shall be as shown on Contract drawing sheet C6.1. Foxholes should have plywood cover similar to detail on RETS standard design C-12. Foxholes shall be provided with subdrain system to drain water from foxholes. Foxholes shall be below grade as much as possible with 2% minimum grade away from foxhole itself in all directions. French drains are not acceptable for drainage of foxpits.

Each foxhole shall have an arm rest pit similar to trainfire 2's pits. The pits shall be no wider than the foxhole and approximately 1.25 meters in length. Pits should be filled with sand and have railroad ties to keep the sand in place.

3.3. The number of the firing lane should be painted inside the front corner of the foxhole. In other words, as you look down the firing line from foxhole, you should be able to see both the number of the far marker at end of firing lane and the same number in the foxhole but along the same line of sight.

3.4. Target boots and E-type zero target base shall be similar to those on Ft. Riley ranges, trainfire 4 and 5.

3.5. Range lane markers are required between each lane as shown on drawings. Range limit markers are also required on each side (one each side) of the range approximately 21 meters from the firing position. Details for range lane markers and limit markers are on Contract Drawing Sheets C6.1.

3.6. Lane marker stumps are required as shown on the drawings. Stumps are essentially a 100 x 50 mm lumber with a plate with lane number on it. The number should be approximately 500 mm above grade.

PART D - COMBAT PISTOL RANGE

CHAPTER 3 – SITE PLANNING AND DESIGN

3. **Scope of work.** The following contains the civil design requirements for the Combat Pistol Firing Range. The designer will be required to prepare all specifications related to civil and sitework. Included are the minimum requirements for construction.

Range consists of 15 firing lanes with a width of 8 meters each. Each firing lane has an array of seven targets located from 10 to 31 meters from the firing position. Each lane also has a 20 meter move-out path.

3.1. Site Development plan. Contract Drawing sheets c3.1 and c3.3 show the general layouts for the ranges.

3.2. Pistol range is shown on Huntsville Standard drawing L-04.

3.3. Target Employment shall be as shown on Huntsville Standard drawing C-01 and C-02. Target emplacements shall be above grade.

The lane number shall be painted in black lettering similar to trainfire 2 target emplacements. The numbers shall be on the downlane side of the emplacements.

3.4. Designer is referred to Huntsville Standard chapter 5 'target and simulation equipment emplacements' and chapter 6, 'Protection of the target mechanism'. For berm widths, design for a .50 caliber ball projectiles.

3.5. Range Lane markers are required between each lane at the down lane end of the range to denote firing lane numbers. Range limit markers are also required on each side of the range approximately 26 meters from the firing position. Details for range lane markers and limit markers are on Contract Drawing Sheets C6.1.

MODIFIED RECORD FIRING RANGE

Page

CHAPTER 3 SITE PLANNING AND DESIGN

Paragraph	3	SCOPE OF WORK	3-1
	3.1	DEMOLITION.....	3-1
	3.2	SALVAGE.....	3-1
	3.3	ASBESTOS	3-1
	3.4	SITE DEVELOPMENT PLAN	3-1
Picture 1:		EXISTING STRUCTURE.....	3-3

MODIFIED RECORD FIRING RANGE

CHAPTER 3 - SITE PLANNING AND DESIGN

3. **Scope of work.** The following contains specific civil design requirements for the Modified Record Firing Range. The designer will be required to prepare all specifications related to civil and sitework. Included are the minimum requirements for construction.

Range consists of 16 firing lanes with a width of 20 meters each. Each firing lane has a foxhole firing position and an array of nine targets emplacements located from 50 to 300 meters from the firing position. Each lane has a night firing position located 25 meters in from of the foxholes.

3.1. Demolition. Existing facilities scheduled for demolition includes building 941 ammo shed, building 942 latrine, and building 943 tower. Obtain approval of the disposal site from the contracting officer. Demolition shall also include the pavements, equipment, foundations, range lighting, conduit and wiring for target controls, foxholes, target emplacements, and all associated items. PICTURE 1: EXISTING STRUCTURES is attached at the end of this section showing the three buildings to be demolished and the power poles.

3.2. Salvage. Pole mounted transformer should be turned into Ft. Riley public works maintenance facilities (bldg. 7700) on the main post. Power poles, with all hardware removed, shall be turned in to public works yard.

3.3. Asbestos. Inspection findings by the Fort Riley for asbestos containing material and lead base paint found the following presumed/suspected asbestos-containing materials.

3.3.1. Building 941 (Ammo shed-metal structure). Presumed/suspected asbestos-containing material to be 1) window glazing – approximately 2 sq. ft. 2) Misc. tar/sealant material – approximately 2 sq. ft.

3.3.2. Building 942 (Latrine – metal structures). No suspected material was identified.

3.3.3. Building 943 (Control Tower – metal structures). Presume/suspected asbestos-containing material, approximately 2 sq. ft.

3.4. Site Development plan. Contract drawing sheets C3.1 and C3.5 show the general layouts for the range.

3.4.1. Modified Record Fire range is shown on RETS standard design L-02. Night firing stake should be centered in each lane along the night fire line.

3.4.2. Target emplacement shall be as shown on RETS standard design C-01 and C-02. Target emplacements shall be above grade.

The lane number shall be painted in black lettering similar to trainfire 2 target emplacements. The numbers shall be on the downlane side of the emplacements.

3.4.3. Design shall be in accordance with RETS standard design, chapter 5 'target and simulation equipment emplacements' and chapter 6, 'Protection of the target mechanism'. For berm widths, design for 5.56 mm ball projectile on the Modified Record Firing Range.

3.4.4. Particular foxhole requirements shall be as shown on Contract drawing sheet C6.1. Foxholes should have plywood cover similar to detail on RETS standard design C-12. Foxholes shall be provided with subdrain system to drain water from foxholes. Foxholes shall be below grade as much as possible with 2% minimum grade away from foxhole itself in all

MODIFIED RECORD FIRING RANGE

directions. French drains are not acceptable for drainage of foxpits.

Each foxhole shall have an arm rest pit similar to trainfire 2's pits. The pits shall be no wider than the foxhole and approximately 1.25 meters in length. Pits should be filled with sand and have railroad ties to keep the sand in place.

3.4.5. Range Lane markers are required between each lane at the down lane end of the range to denote firing lane numbers. Range limit markers are also required on each side (2 total) of the range approximately 250 meters from the firing positions. Details for range lane markers and limit markers are on Contract Drawing Sheets C6.1.

3.4.6. The number of the firing lane should be painted inside the front corner of the foxhole. In other words, as you look down the firing line from foxhole, you should be able to see both the number of the far marker at end of firing lane and the same number in the foxhole but along the same line of sight.

3.4.7. Hostile target emplacement shall be as shown on RETS standard design C-04.

3.4.8. Night firing positions should have a flat surface approximately 1.25 meters x 1.25 meters with a pea gravel surface. It should have railroad ties on the three sides to keep the gravel in place.

MODIFIED RECORD FIRING RANGE



Picture 1: Existing Structures